

New MD planning tool

Bartek Urbaniec on behalf of ASM-Team, BE-CO-DS

MSWG meeting #3, 06-04-2018

Accelerator Schedule Management

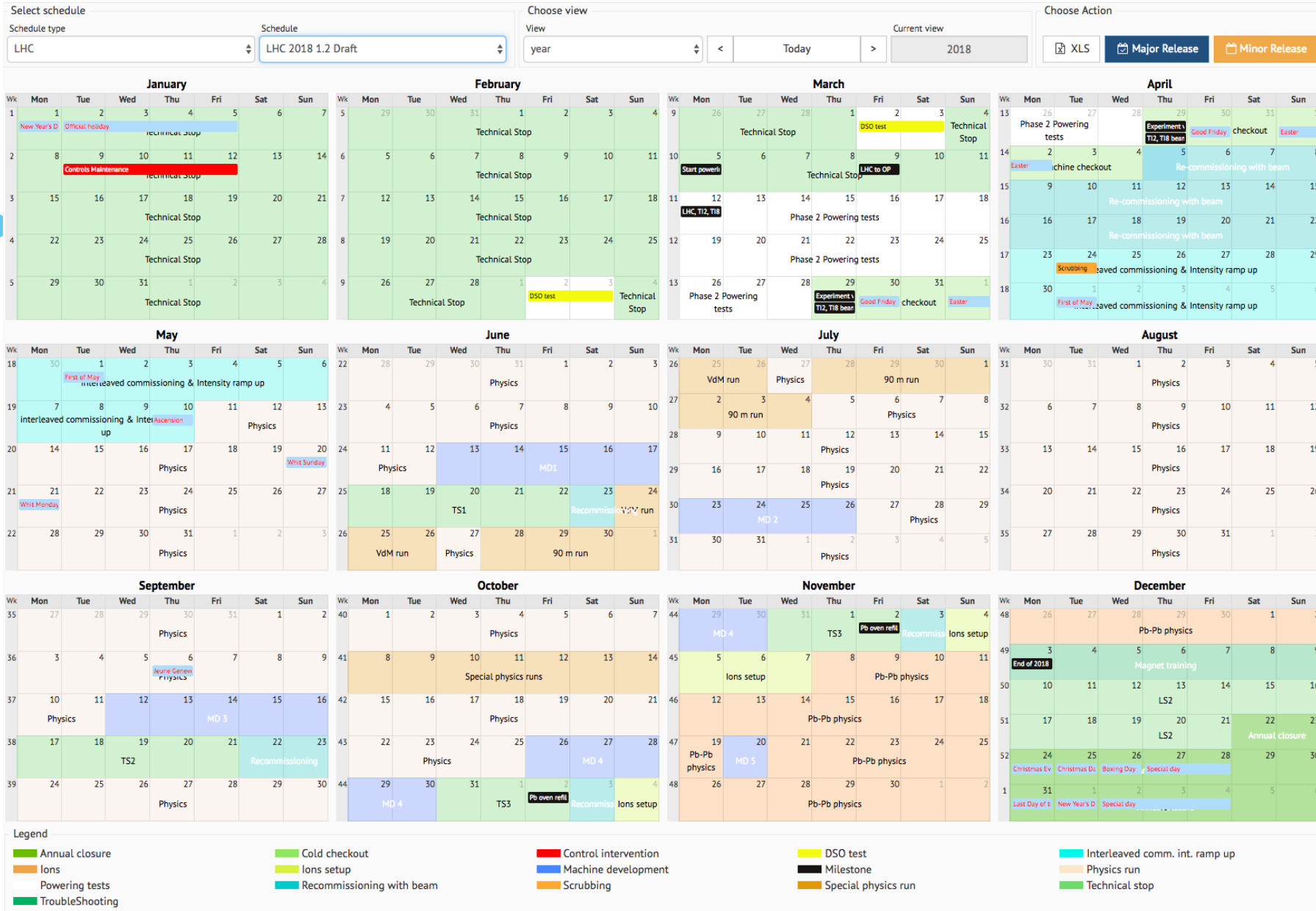
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Accelerator Schedule Management



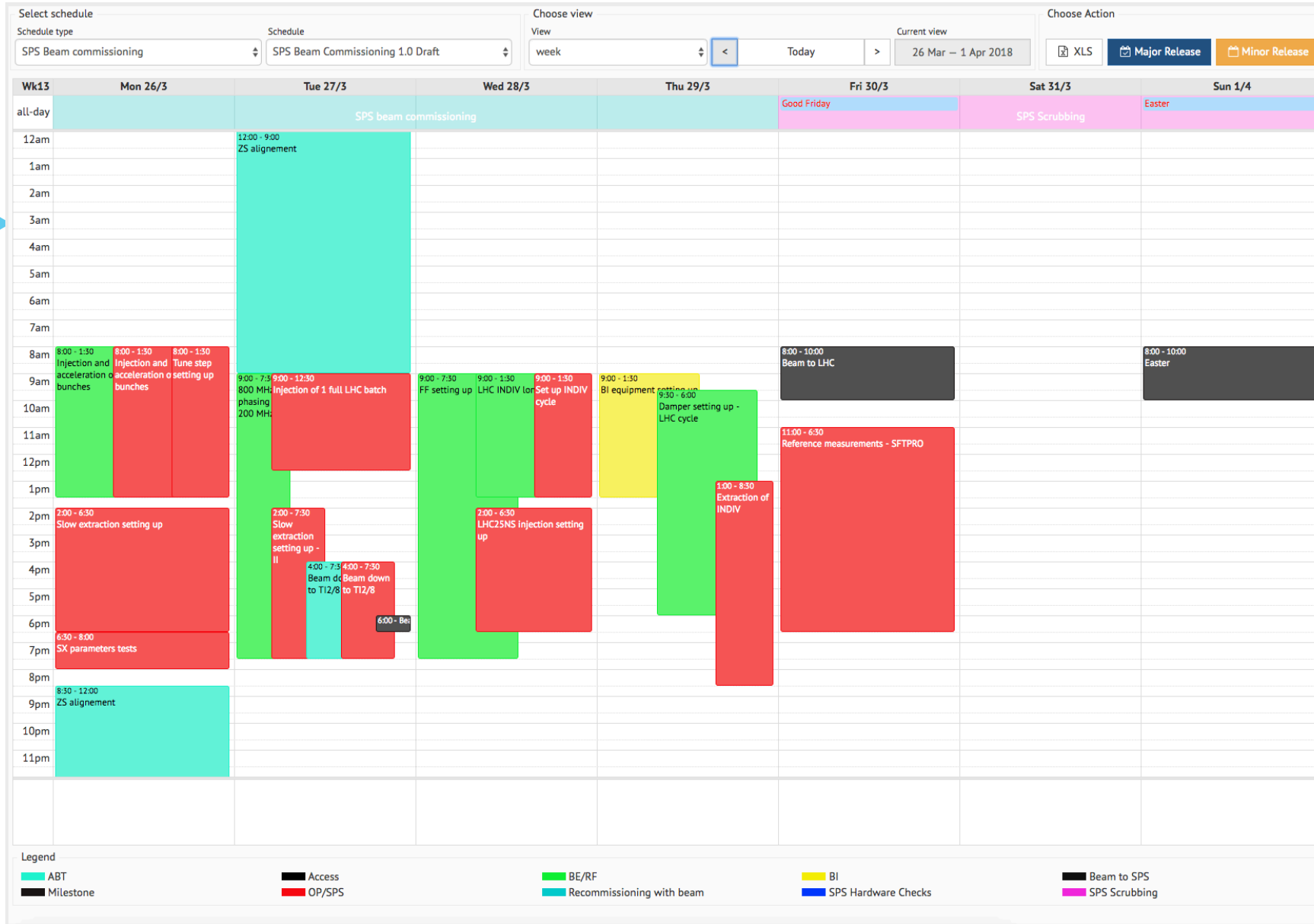
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Accelerator Schedule Management

Provide search criteria

Advanced search, e.g. Name like "% Shelby"

Title	rs	Needed by	Event name	CCR Responsible	CCR EDMS Status	CCR URL	Approval	Reques	People involved	JIRA issue	Comment
ACCMEAS + ACCLOG Database Security Patching (CALSDMB + ...)		30-01-2018		Christopher Roderick	Not required		SUWG	IT-DB	Nilo Segura Chinchill...		Nilo will perform
AD scraper controls consolidation		01-04-2018		Mark Edward John Bu...	Not discussed		OP	EN-STI	Aurelio De Macedo, ...		
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...		01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...		01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...		01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Application of AMT security upgrade to consoles, wallscreens a...		09-02-2018		Enzo Genuardi, Micka...	Not required		SUWG	BE-CO	Sergey Baranov, Anto...	ACCADM-47	A reboot is requi
Auto-tuning bug fix for ION switch + veto release		08-12-2017		Luca Arnaudon	Not required		OP		Ylenia Brischetto		
AWAKE: Work Package 12: Power Converters: proton, electron a...		01-10-2017		Marc Magrans De Abril	Not required		OP	BE-OP	Quentin Andrew King...	EPCCCS-3154	DEPLOYED
Booster Injection correctors converters upgrade		01-04-2020		Quentin Andrew King	Not discussed		OP	TE-EPC	David Nisbet, Konsta...		
C&V package - YETS 2017		05-03-2018		William Booth	Not required		TIOC	EN-CV	William Booth, Joann...	?filter=22330	All new features
C20 control and C200 control as replacement of the existing G...		16-02-2018		Joao Carlos Oliveira	Not required		OP				
Capacitor Discharge MarXDisCap Power Converters for PS Extra...		01-08-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Davide Aguglia, Davi...	EPCCCS-4744	
Capacitor discharge power converters for the PS extraction		01-08-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Marine Gourber-Pace...	EPCCCS-4744	
Capacitor discharge power converters for the PS extraction and...		01-06-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Jean-Marc Cravero, D...	EPCCCS-5472	
CIET - YETS 2017		31-03-2018		Borja Fernandez Adie...	Not discussed		TIOC	TE-CRG	Jesus Fernandez Cort...	?filter=22331	All new features
COMPASS SM2 magnet converter controls upgrade from FGCS ...		01-04-2020		Raul Murillo Garcia	Not required		OP	TE-EPC	Quentin Andrew King...	EPCCCS-3152	
Consolidate PSB extraction kicker front-end computer		01-04-2020		Nicolas Magnin	Not discussed		OP	BE-CO			GM eradication. I
Consolidate PSB Septa Electronics & Controls. Phase 1.		28-02-2018		Etienne Carlier	Not required		OP	BE-CO	Marco Pedro De Sous...		GM eradication. I
Consolidate PSB Septa Electronics & Controls. Phase 2.		01-04-2020		Etienne Carlier	Not required		OP	BE-CO	Marco Pedro De Sous...		GM eradication. I
Consolidation of converter control for SPS main quadrupoles		01-04-2018		Quentin Andrew King	Not required		OP	TE-EPC	Olivier Michels, Marc...	EPCCCS-5390	QS controls tests
Consolidation of LEIR OASIS cfi-363-ceaos1		17-04-2018		Anastasiya Radeva P...	Not required		OP	BE-CO	Emmanuel Said, Anas...	AOS-2846	
Crab cavities LLRF installation		23-02-2018		Andrew Butterworth	Not required		OP				
Crab cavities PLCs installation		23-02-2018		Luca Arnaudon	Not required		OP				
Crate Management Module firmware/FESA update		16-02-2018		Jochen Dirk Betz	Not required		OP				All instances on :
Cryogenics - YETS 2017		31-03-2018		Enrique Blanco Vinuela	Not required		TIOC	TE-CRG	Philippe Durand, Jea...	?filter=22326	All new features
CTR driver bugfix		19-06-2018	ITS1	Michel Arruat, Juan D...	Not required		SUWG		Michel Arruat	DRV-186	
CTR driver updates		08-01-2018		Michel Arruat	Not required		SUWG		Michel Arruat, Federi...		bugfixes + DMA p
CVORA firmware upgrade	EI,...	19-06-2018	ITS1	Juan David Gonzalez ...	Not required		SUWG		Juan David Gonzalez ...	HT-126	
Damper firmware/FESA update		16-02-2018		Gerd Kotzian	Not required		OP				
Damper PLC switch-on sequencer changes		16-02-2018		Luca Arnaudon	Not required		OP				
Deploy new TFB in all 4 rings		16-02-2018		Ylenia Brischetto	Not required		OP				
Deploy Power Converter User Permit for the BIS		01-07-2019		Quentin Andrew King	Required		OP	BE-OP	David Nisbet, Brande...	EPCCCS-5459	

228 items shown

Feedback | OP Contacts | CCR Template | Hide 'Deployed' | Delete (0) | Duplicate (0) | Bulk update (0) | Create

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- ▶ **Machine Development** planning
 - ▶ *Focus of this presentation...*

Machine Development planning tool

Aim: replace legacy application with an easy-to-use tool to manage / schedule MD requests, integrated with the accelerator schedules, and fully maintained.

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It's all about MDs, not the tools!

MD planning tool: New features and improvements

With respect to the old application:

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- ▶ Set of **configurable notifications** for MD coordinators and users (e.g. when MD is scheduled)
- ▶ Possibility to **upload supporting files** (e.g. MD procedure) directly in MD request
- ▶ Many improvements in the MD Request form
 - ▶ new fields like particle types
 - ▶ proper validations
 - ▶ automatic data completion
 - ▶ and more ...

DEMO

Accelerator Schedule Management

Schedules

Select schedule: LHC | Schedule: LHC 2018 0.4 Draft | Choose view: year | Current view: 2018 | Choose Action: XLS, Major Release, Minor Release

Month	Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
January	1	1	2	3	4	5	6	7
	2	8	9	10	11	12	13	14
	3	15	16	17	18	19	20	21
	4	22	23	24	25	26	27	28
	5	29	30	31	1	2	3	4
February	5	29	30	31	1	2	3	4
	6	5	6	7	8	9	10	11
	7	12	13	14	15	16	17	18
	8	19	20	21	22	23	24	25
	9	26	27	28	1	2	3	4
March	9	26	27	28	1	2	3	4
	10	5	6	7	8	9	10	11
	11	12	13	14	15	16	17	18
	12	19	20	21	22	23	24	25
	13	26	27	28	29	30	31	1
April	13	26	27	28	29	30	31	1
	14	2	3	4	5	6	7	8
	15	9	10	11	12	13	14	15
	16	16	17	18	19	20	21	22
	17	23	24	25	26	27	28	29
May	18	30	1	2	3	4	5	6
	19	7	8	9	10	11	12	13
	20	14	15	16	17	18	19	20
	21	21	22	23	24	25	26	27
	22	28	29	30	31	1	2	3
June	22	28	29	30	1	2	3	4
	23	4	5	6	7	8	9	10
	24	11	12	13	14	15	16	17
	25	18	19	20	21	22	23	24
	26	25	26	27	28	29	30	1
July	26	25	26	27	28	29	30	1
	27	2	3	4	5	6	7	8
	28	9	10	11	12	13	14	15
	29	16	17	18	19	20	21	22
	30	23	24	25	26	27	28	29
August	31	30	31	1	2	3	4	5
	32	6	7	8	9	10	11	12
	33	13	14	15	16	17	18	19
	34	20	21	22	23	24	25	26
	35	27	28	29	30	31	1	2
September	35	27	28	29	30	31	1	2
	36	3	4	5	6	7	8	9
	37	10	11	12	13	14	15	16
	38	17	18	19	20	21	22	23
	39	24	25	26	27	28	29	30
October	40	1	2	3	4	5	6	7
	41	8	9	10	11	12	13	14
	42	15	16	17	18	19	20	21
	43	22	23	24	25	26	27	28
	44	29	30	31	1	2	3	4
November	44	29	30	31	1	2	3	4
	45	5	6	7	8	9	10	11
	46	12	13	14	15	16	17	18
	47	19	20	21	22	23	24	25
	48	26	27	28	29	30	1	2
December	48	26	27	28	29	30	1	2
	49	3	4	5	6	7	8	9
	50	10	11	12	13	14	15	16
	51	17	18	19	20	21	22	23
	52	24	25	26	27	28	29	30

Legend: Christmas, Ions setup, Recommissioning with beam, Control intervention, Machine development, Scrubbing, DSO test, Official CERN Holiday, Special physics run, Interleaved comm. int. ramp up, Physics run, Technical stop, Ions Powering tests

Keyboard shortcuts, Documentation, Support, Logout

2.0.0-SNAPSHOT

DEMO

Accelerator Schedule Management

- Schedules
- MD Planning
- Controls Changes
- Reports

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- Keyboard shortcuts
- Documentation
- Support
- Logout

2.0.0-SNAPSHOT

Schedules

Select schedule

Schedule type: LHC

Schedule: LHC 2018 0.4 Draft

Choose view

View: year

Current view: 2018

Choose Action

XLS Major Release Minor Release

January

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1	2	3	4	5	6	7
2	8	9	10	11	12	13	14
3	15	16	17	18	19	20	21
4	22	23	24	25	26	27	28
5	29	30	31	1	2	3	4

February

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
5	29	30	31	1	2	3	4
6	5	6	7	8	9	10	11
7	12	13	14	15	16	17	18
8	19	20	21	22	23	24	25
9	26	27	28	1	2	3	4

March

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
9	26	27	28	1	2	3	4
10	5	6	7	8	9	10	11
11	12	13	14	15	16	17	18
12	19	20	21	22	23	24	25
13	26	27	28	29	30	31	1

April

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
13	26	27	28	29	30	1	2
14	3	4	5	6	7	8	9
15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	23
17	24	25	26	27	28	29	30
18	31	1	2	3	4	5	6

May

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
18	30	1	2	3	4	5	6
19	7	8	9	10	11	12	13
20	14	15	16	17	18	19	20
21	21	22	23	24	25	26	27
22	28	29	30	31	1	2	3

June

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
22	28	29	30	1	2	3	4
23	5	6	7	8	9	10	11
24	12	13	14	15	16	17	18
25	19	20	21	22	23	24	25
26	26	27	28	29	30	1	2

July

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	25	26	27	28	29	30	1
27	2	3	4	5	6	7	8
28	9	10	11	12	13	14	15
29	16	17	18	19	20	21	22
30	23	24	25	26	27	28	29
31	30	31	1	2	3	4	5

August

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	30	31	1	2	3	4	5
32	6	7	8	9	10	11	12
33	13	14	15	16	17	18	19
34	20	21	22	23	24	25	26
35	27	28	29	30	31	1	2

September

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
35	27	28	29	30	31	1	2
36	3	4	5	6	7	8	9
37	10	11	12	13	14	15	16
38	17	18	19	20	21	22	23
39	24	25	26	27	28	29	30

October

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
40	1	2	3	4	5	6	7
41	8	9	10	11	12	13	14
42	15	16	17	18	19	20	21
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45	5	6	7	8	9	10	11
46	12	13	14	15	16	17	18
47	19	20	21	22	23	24	25
48	26	27	28	29	30	1	2

December

Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
48	26	27	28	29	30	1	2
49	3	4	5	6	7	8	9
50	10	11	12	13	14	15	16
51	17	18	19	20	21	22	23
52	24	25	26	27	28	29	30
1	31	1	2	3	4	5	6

Legend

■ Christmas	■ Control intervention	■ DSO test	■ Interleaved comm. int. ramp up	■ Ions
■ Ions setup	■ Machine development	■ Official CERN Holiday	■ Physics run	■ Powering tests
■ Recommissioning with beam	■ Scrubbing	■ Special physics run	■ Technical stop	

Future plans



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Target May 2018

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- ▶ Possibility to subscribe to MD Schedules via your calendar

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- ▶ Various MD Statistics

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- ▶ Exposing History of MD request modifications (data is already captured)

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- ▶ Possibility to subscribe to MD Schedules via your calendar
- ▶ Saving state of incomplete MD request (in case of network failure)

Target end 2018

- ▶ Various MD Statistics

LS2

- ▶ Exposing History of MD request modifications (data is already captured)
- ▶ Yearly view of Dedicated MD requests (mainly for MD coordinators)

Questions